Mark your calendar:

Workshop on Ultrafast X-ray Science

June 4th and 5th, 2002

Advanced Photon Source, Argonne National Laboratory.

On June 4th and 5th, 2002, the Michigan-Howard-Lucent Technologies/Bell Labs Collaborative Access Team (MHATT-CAT) at the Advanced Photon Source (APS) will host a workshop: "Ultrafast X-ray Science," sponsored by MHATT-CAT, the APS, and FOCUS, a new NSF Frontier Center at the University of Michigan.

This workshop is aimed at establishing a strong user base for time-resolved studies using synchrotron radiation. MHATT-CAT wishes to identify needs and opportunities among the community of potential users, in the context that MHATT-CAT will soon be taking proposals from Independent Investigators for beamtime as early as Fall 2002. One of the main strengths of MHATT-CAT is in picosecond time-resolved x-ray diffraction, so it is fitting that this workshop will kick off a series of user workshops by the CAT.

Time-resolved x-ray science, and in particular ultrafast x-ray science, is an intensely active field of research. MHATT-CAT has made significant advances in the science, instrumentation and techniques of time-resolved hard x-ray scattering at its ultrafast diffraction facility on the undulator beamline 7-ID-D. The capabilities of this unique facility will be presented at the workshop. In particular, the workshop will try to identify what experiments are best served by the characteristics of synchrotron radiation at the APS, and will explore how to extend the capabilities of synchrotron based-facilities through advances in both instrumentation and the source.

In order that the participants get the most out of this workshop, it will be held on-site at the Advanced Photon Source at Argonne National Lab. There will be tours of the facility, presentations by CAT-members and the APS, science talks, and of course *break out* sessions with lots of discussions. Because U.S. government Labs have access restrictions, non-U.S. citizens should contact us immediately.

More information will be posted soon at:

`http://www.umich.edu/~focuspfc`

Please feel free to forward this on to your colleagues.

Best regards,

David Reis
on behalf of MHATT-CAT

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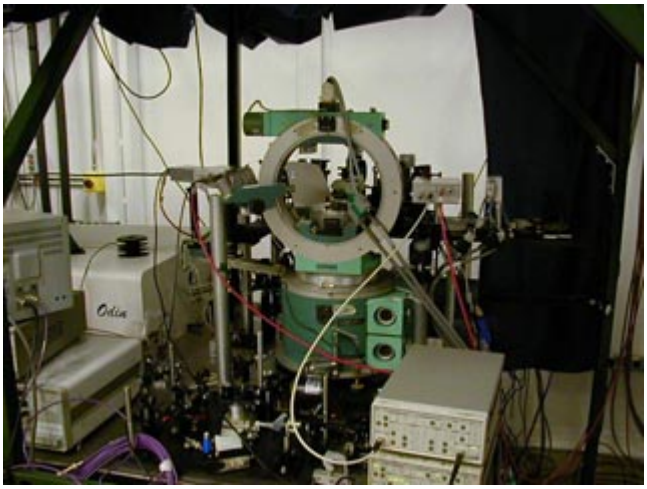

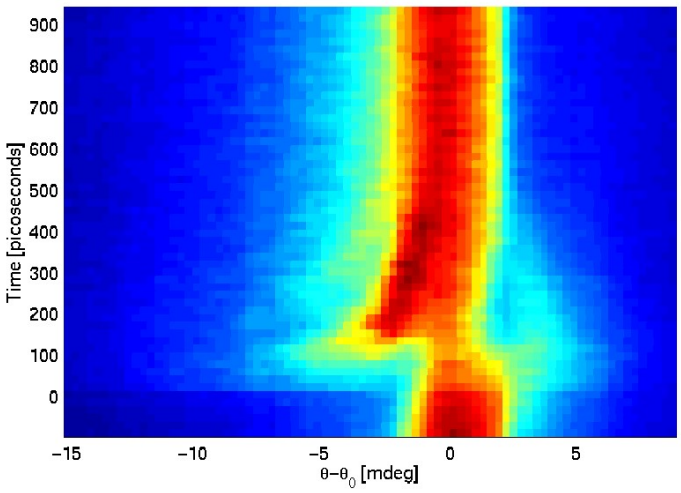

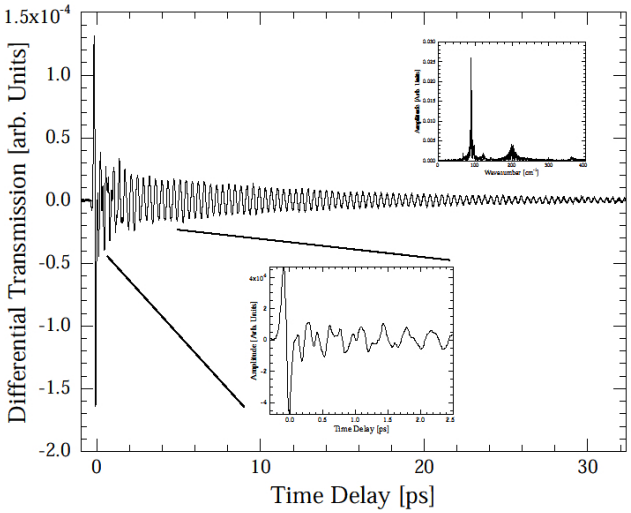

Clockwise from upper left: Inside 7-ID-D at MHATT-CAT, 4 circle goniometer for positioning samples in x-ray beam shown next to the ultrafast laser; Roy Clarke, David Reis, and Matt DeCamp working outside of 7ID-D; Impulsive stimulated Raman scattering in BGO measured by differential transmission in an optical pump-probe experiment; time-resolved x-ray diffraction pattern from InSb following impulsive excitation.